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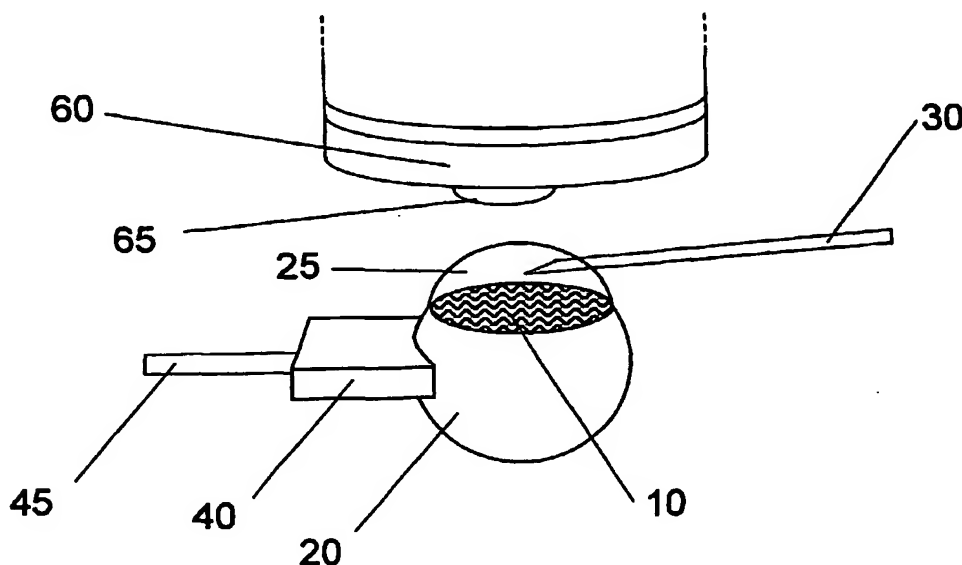
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- (71) Applicant (for all designated States except US): **CHILDREN'S HOSPITAL MEDICAL CENTER [US/US];**
3333 Burnet Avenue, Cincinnati, OH 45229 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **LANG, Richard, Anthony [AU/US];** 8917 Symmes Trace Court, Loveland, OH 45140 (US). **LOBOV, Ivan, Borisovich [RU/US];** 601 Lowell Avenue, #17, Cincinnati, OH 85220 (US).
- (74) Agent: **NESBITT, Daniel, F.;** Hasse Gutttag & Nesbitt LLC, 7577 Central Park Boulevard, Suite 316, Mason, OH 45040 (US).
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(54) Title: IN VIVO ANGIOGENESIS ASSAY



(57) Abstract: A method for evaluating *in vivo* a test substance for angiogenesis modulation activity, including the steps of providing a rodent pup having a pupillary membrane system in a first eye, injecting transcorneally proximate to the pupillary membrane a test substance; and examining the pupillary membrane to determine whether new vascular tissue has grown. The method can also evaluate the ability of a test substance to regress existing vascular tissue, or to inhibit or prevent new vascular tissue, by injecting transcorneally a first substance that induces new vascular tissue growth, then injecting a test substance, and examining the pupillary membrane to determine whether new vascular tissue has grown. The assay can also be used to evaluate the effect of a small molecule on a property of a capillary vessel, and to evaluate a test substance on a problematic vascular condition.

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